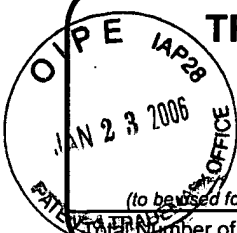
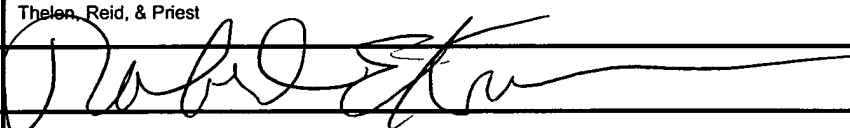
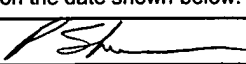


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

 <p><b>TRANSMITTAL FORM</b></p> <p>(to be used for all correspondence after initial filing)</p>	Application Number	10/061,570	
	Filing Date	Feb. 1, 2002	
	First Named Inventor	Keightley	
	Art Unit	2877	
	Examiner Name	Michael Patrick Stafira	
Number of Pages in This Submission	153	Attorney Docket Number	034456-000147

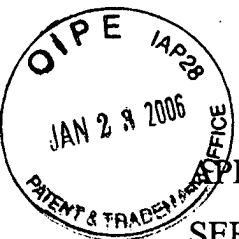
ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): letter: correction to foreign priority papers on file copies of documents on file postcard
<b>Remarks</b>  		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm	Thelen, Reid, & Priest		
Signature			
Printed Name	Robert E. Krebs		
Date	January 12, 2006	Reg. No.	25,885

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	Penelope Sherman	Date	January 19, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Keightley et al.  
SERIAL NO.: 10/061,570 CONFIRMATION No.: 9660  
FILING DATE: Feb 1, 2002  
TITLE: High Speed Laser Micrometer  
PATENT NO.: 6,947,152  
ISSUED: Sep. 20, 2005  
EXAMINER: Michael Patrick Stafira  
ART UNIT: 2877

Certificate of Mailing

I hereby certify that this paper is being deposited with the United States Postal Service as First Class  
Mail in an envelope addressed to: MAIL STOP: Office of Initial Patent Examination, P.O. Box  
1450 Alexandria, VA 22313-1450, on the date printed below:

Date: 1/19/2006

Signature: P Sherman  
Penelope Sherman

MAIL STOP:  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CORRECTION TO FOREIGN PRIORITY PAPERS ON FILE

In review of the Foreign Priority Papers for priority document 2,334,375 submitted on Nov 11, 2004 to the Patent Office, we discovered that the incorrect priority document papers 2,371,602 by the same inventors entitled "High Speed Laser Micrometer" are in the PTO electronic image file wrapper.

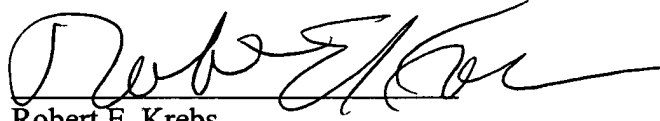
A correct claim for foreign priority to 2,334,375 was made in the Feb 1, 2002 transmittal letter. On Nov. 11, 2004 incorrect Foreign Priority Papers were submitted to the Patent Office. The Nov 22, 2004 Office reply to the Nov 11, 2004 submission made no indication of incorrectly filed papers. The issued patent and PAIR each correctly reference the priority document 2,334,375 "Laser Micrometer" not 2,371,602 "High Speed Laser Micrometer".

Therefore, please amend the appropriate records to include the enclosed certified copy of priority document 2,334,375.

The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-1698.

Respectfully submitted,

THELEN REID & PRIEST LLP

A handwritten signature in black ink, appearing to read "Robert E. Krebs", written over a horizontal line.

Robert E. Krebs

Reg. No. 25,885

Dated: January 14, 2006

THELEN REID & PRIEST LLP  
P.O. Box 640640  
San Jose, CA 95164-0640  
Telephone: (408) 292-5800  
Fax: (408) 287-8040

02-07-00

K

02/01/02

JC950 U.S. PTO

Patent  
Attorney's Docket No. 024931-147

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

UTILITY PATENT  
APPLICATION TRANSMITTAL LETTER

Box PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Express Mail<sup>®</sup> mailing label No. EL3328548  
Date of Deposit February 1, 2002  
I hereby certify that this paper or fee is  
being deposited with the United States Postal  
Service "Express Mail Post Office to Addressee"  
service under 37 CFR 1.10 on the date indicated  
above and is addressed to the assistant  
Commissioner for Patent Washington, D.C. 20231.  
SEINI NATANGI  
Typed or printed name of person mailing paper or  
fee)  
[Signature]  
Signature of person mailing paper or fee)

Enclosed for filing is the utility patent application of John Keightley; Eric Rechner; and  
Adriano Cunha for HIGH SPEED LASER MICROMETER.

☐ Applicant(s) hereby request(s) that the above-captioned application NOT BE  
PUBLISHED under 35 U.S.C. § 122(b) and 37 C.F.R. § 1.211. The undersigned  
hereby certifies that the invention disclosed in this application has not and will not be the  
subject of an application filed in another country, or under a multilateral international  
agreement, that requires publication at eighteen months after filing.

☒ Applicant(s) suggest(s) Figure 1 for inclusion on the front page of the patent application  
publication and patent.

Also enclosed are:

☒ 3 sheet(s) of ☐ formal ☒ informal drawing(s);

☒ a claim for foreign priority under 35 U.S.C. §§ 119 and/or 365 is ☒ hereby made to  
2,334,375 filed in Canada on February 2, 2001;

☒ in the declaration;

☐ a certified copy of the priority document;

☐ a General Authorization for Petitions for Extensions of Time and Payment of Fees;

☐ an Assignment document;

☐ an Information Disclosure Statement;

☐ a patent application data sheet; and

☐ Other: \_\_\_\_\_

☒ An ☒ executed ☐ unexecuted declaration of the inventor(s)

☒ also is enclosed ☐ will follow.

☒ Small entity status is hereby claimed.

☒ Please amend the specification by inserting before the first line the sentence:

--This application claims priority under 35 U.S.C. §§ 119 and/or 365 to  
2,334,375 filed in Canada on February 2, 2001; the entire content of  
which is hereby incorporated by reference.--

☐ Please amend the specification by inserting before the first line the sentence:

JC997 U.S. PTO  
10/061570  
02/01/02

← *Correctly identified  
foreign priority documents*



21839

(10/01)

--This application claims priority under 35 U.S.C. § 119 to U.S. Provisional Application No. \_ entitled \_ and filed on \_\_, the entire content of which is hereby incorporated by reference.--

☐ Please amend the specification by inserting before the first line the sentence:

--This application is a continuation of International Application No. \_ filed on \_\_, which International Application ☐ was ☐ was not published by the International Bureau in English on \_\_--.

☒ The filing fee has been calculated as follows ☐ and in accordance with the enclosed preliminary amendment:

CLAIMS					
	No. OF CLAIMS		EXTRA CLAIMS	RATE	FEE
Basic Application Fee					\$740.00 (101)
Total Claims	12	MINUS 20 =	0	× \$18.00 (103) =	0
Independent Claims	3	MINUS 3 =	0	× \$84.00 (102) =	0
If multiple dependent claims are presented, add \$280.00 (104)					
Total Application Fee					740.00
If small entity status is claimed, subtract 50% of Total Application Fee					370.00
Add Assignment Recording Fee \$40.00 (581) if Assignment document is enclosed					
<b>TOTAL APPLICATION FEE DUE</b>					<b>370.00</b>

☐ This application is being filed without a filing fee. Issuance of a Notice to File Missing Parts of Application is respectfully requested.

☒ A check in the amount of \$ 370.00 is enclosed for the fee due.

☐ Charge \$ \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.

☒ The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Please address all correspondence concerning the present application to:

Robert E. Krebs  
BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
P.O. Box 1404  
Alexandria, Virginia 22313-1404.

Respectfully submitted,  
BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By: 

Robert E. Krebs

Registration No. 25,885

Date: February 1, 2002

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(650) 622-2300



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*Incorrect Priority Document  
on file*

*Bureau canadien  
des brevets*  
Certification

*Canadian Patent  
Office*  
Certification

La présente atteste que les documents  
ci-joints, dont la liste figure ci-dessous,  
sont des copies authentiques des docu-  
ments déposés au Bureau des brevets.

This is to certify that the documents  
attached hereto and identified below are  
true copies of the documents on file in  
the Patent Office.

Specification and Drawings, as originally filed, with Application for Patent Serial No:  
2,371,602, on February 1, 2002, by 3DM DEVICES INC., assignee of John Keightley,  
Eric Rechner and Adriano Cunha, for "High Speed Laser Micrometer".

*Harry Pauline*  
Agent certifié/Certifying Officer

August 11, 2004

Date

Canada

(CIPO 68)  
31-03-04

OPIC  CIPO

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UNITED STATES PATENT AND TRADEMARK OFFICE

JAN 23 2006

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
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Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/061,570	02/01/2002	John Keightley	024931-147	9660

7590 11/22/2004

Robert E. Krebs  
Thelen Reid & Priest LLP  
P O Box 640640  
San Jose, CA 95164-0640

EXAMINER

STAFIRA, MICHAEL PATRICK

ART UNIT

PAPER NUMBER

2877

DATE MAILED: 11/22/2004

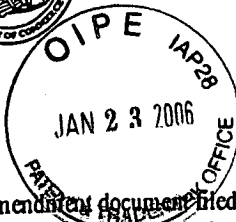
Please find below and/or attached an Office communication concerning this application or proceeding.

Office Reply to Priority Document  
Submitted does not indicate that  
the priority document was incorrect



10/06/570

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
P.O. Box 1450  
ALEXANDRIA, VA 22313-1450  
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## Notice of Non-Compliant Amendment (37 CFR 1.121)

The amendment document filed on 11-1-04 is considered non-compliant because it has failed to meet the requirements of 37 CFR 1.121. In order for the amendment document to be compliant, correction of the following item(s) is required. Only the corrected section of the non-compliant amendment document must be resubmitted (in its entirety), e.g., the entire "Amendments to the claims" section of applicant's amendment document must be re-submitted. 37 CFR 1.121(h).

## THE FOLLOWING CHECKED (X) ITEM(S) CAUSE THE AMENDMENT DOCUMENT TO BE NON-COMPLIANT:

- ☐ 1. Amendments to the specification:
- ☐ A. Amended paragraph(s) do not include markings.
  - ☐ B. New paragraph(s) should not be underlined.
  - ☐ C. Other \_\_\_\_\_
- ☐ 2. Abstract:
- ☐ A. Not presented on a separate sheet. 37 CFR 1.72.
  - ☐ B. Other \_\_\_\_\_
- ☐ 3. Amendments to the drawings: \_\_\_\_\_
- ☒ 4. Amendments to the claims:
- ☒ A. A complete listing of all of the claims is not present.
  - ☐ B. The listing of claims does not include the text of all pending claims (including withdrawn claims)
  - ☐ C. Each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. Note: the status of every claim must be indicated after its claim number by using one of the following 7 status identifiers: (Original), (Currently amended), (Canceled), (Withdrawn), (Previously presented), (New) and (Not entered).
  - ☐ D. The claims of this amendment paper have not been presented in ascending numerical order.
  - ☐ E. Other: Claims 11-12 need to listed because they haven't been cancel

For further explanation of the amendment format required by 37 CFR 1.121, see MPEP Sec. 714 and the USPTO website at <http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/officeflyer.pdf>.

If the non-compliant amendment is a **PRELIMINARY AMENDMENT**, applicant is given **ONE MONTH** from the mail date of this letter to supply the corrected section which complies with 37 CFR 1.121. Failure to comply with 37 CFR 1.121 will result in non-entry of the preliminary amendment and examination on the merits will commence without consideration of the proposed changes in the preliminary amendment(s). This notice is not an action under 35 U.S.C. 132, and this **ONE MONTH** time limit is not extendable.

If the non-compliant amendment is a reply to a **NON-FINAL OFFICE ACTION** (including a submission for an RCE), and since the amendment appears to be a *bona fide* attempt to be a reply (37 CFR 1.135(c)), applicant is given a **TIME PERIOD** of **ONE MONTH** from the mailing of this notice within which to re-submit the corrected section which complies with 37 CFR 1.121 in order to avoid abandonment. **EXTENSIONS OF THIS TIME PERIOD ARE AVAILABLE UNDER 37 CFR 1.136(a).**

If the amendment is a reply to a **FINAL REJECTION**, this form may be an attachment to an Advisory Action. The period for response to a final rejection continues to run from the date set in the final rejection, and is not affected by the non-compliant status of the amendment.

Julia Steptun  
Legal Instruments Examiner (LIE)

571/070-1127  
Telephone No.

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US006947152B2

(12) **United States Patent**  
**Keightley et al.**

(10) Patent No.: **US 6,947,152 B2**

(45) Date of Patent: **Sep. 20, 2005**

(54) **HIGH SPEED LASER MICROMETER**

(75) Inventors: **John Keightley, Langley (CA); Eric Rechner, Nepean (CA); Adriano Cunha, Delta (CA)**

(73) Assignee: **3DM Devices Inc., British Columbia (CA)**

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 257 days.

(21) Appl. No.: **10/061,570**

(22) Filed: **Feb. 1, 2002**

(65) **Prior Publication Data**

US 2002/0105657 A1 Aug. 8, 2002

(30) **Foreign Application Priority Data**

Feb. 2, 2001 (CA) ..... 2334375

(51) Int. Cl.<sup>7</sup> ..... **G01B 11/02; G01B 11/04**

(52) U.S. Cl. .... **356/638; 356/635**

(58) Field of Search ..... **356/625-629, 356/634-640, 601-613; 364/560-564; 250/550, 222.1, 223 R, 224**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,773,029 A \* 9/1988 Claesson et al. .... 702/167  
4,905,512 A \* 3/1990 Hayashi ..... 73/169  
5,469,262 A \* 11/1995 Keen et al. .... 356/639

\* cited by examiner

*Primary Examiner*—Michael P. Stafira

(74) *Attorney, Agent, or Firm*—Thelen Reid & Priest

(57) **ABSTRACT**

A large profile, high speed laser micrometer is formed from a light source unit comprised of a plurality of emitter modules that combine to emit a laser sheet and a detector array comprised of a plurality of detector modules. The laser micrometer also includes a data processing unit. Each of the emitter modules is aligned with a corresponding detector module such that an object passing between the light source unit and the detector array can be measured to an accuracy of at least  $\frac{1}{1000}$ ths of an inch.

**8 Claims, 3 Drawing Sheets**

Correctly  
identified

